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Observatory, Greenwich, in the year 1886.

(*Communicated by the Astronomer Royal.*)

Occultations of Stars by the Moon.

Day of Obs.		Phenomenon.		Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation. h m s	Observer.
1886, Jan.	14	Disapp.	Bradley 381	Altaz.	100	Dark	7 8 24·46	H.
	16	Reapp.	θ^2 Tauri	E. Eq.	70	Bright	4 56 18·41	H.
	16	,,	θ^2 Tauri	Simms' Eq.	220	,,	4 56 17·65	L.
	16	,,	θ^1 Tauri	E. Eq.	70	,,	4 57 59·03	H.
	16	Disapp.	Bradley 619	N. Eq.	80	Dark	4 58 15·31	C.
	16	,,	Aldebaran	N. Eq.	80	,,	7 47 37·09	C.
	16 (*a*)	,,	Aldebaran	S.E. Eq.	220	,,	7 47 36·03	M.
	16	,,	Aldebaran	Altaz.	100	,,	7 47 37·27	L.
	16	,,	Aldebaran	E. Eq.	70	,,	7 47 37·05	H.
	16 (*b*)	Reapp.	Aldebaran	N. Eq.	80	Bright	8 48 27·45	C.
	16 (*c*)	,,	Aldebaran	S.E. Eq.	220	,,	8 48 28·07	M.
	16 (*d*)	,,	Aldebaran	Altaz.	100	,,	8 48 28·23	L.
	16 (*e*)	,,	Aldebaran	E. Eq.	70	,,	8 48 (31·81)	H.
	18	Disapp.	26 Geminorum	E. Eq.	70	Dark	8 37 14·94	L.
	18	,,	26 Geminorum	Altaz.	100	,,	8 37 15·48	H.
Mar.	9 (*f*)	,,	ξ^1 Ceti	Lassell Refl.	130	,,	6 34 24·38	H. T.
	9	,,	ξ^1 Ceti	Altaz.	100	,,	6 34 23·77	A. D.
	9 (*g*)	,,	ξ^1 Ceti	E. Eq.	70	,,	6 34 24·33	L.
	9	Reapp.	ξ^1 Ceti	Simms' Eq.	80	Bright	7 39 27·58	H. T.
	9	,,	64 Ceti	E. Eq.	70	,,	6 38 3·23	L.

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Day of Obs.	Phenomenon.		Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation. h m s	Observer.
1886, April 10	Disapp.	26 Geminorum	E. Eq.	210	Dark	10 24 13·83	L.
15	,,	τ Leonis	Altaz.	100	,,	9 20 42·17	H.
May 6	,,	111 Tauri	Altaz.	100	,,	8 11 2·18	L.
June 23	Reapp.	24 Piscium	Altaz.	100	,,	13 48 56·08	R.
Aug. 19	,,	ν Piscium	Altaz.	100	,,	11 47 50·56	R.
19	,,	ν Piscium	E. Eq.	70	,,	11 47 51·38	H. W.
Sept. 7	Disapp.	Brad. 2402	Altaz.	100	,,	9 43 1·55	A. D.
7	,,	Brad. 2402	E. Eq.	70	,,	9 43 1·77	H.
Oct. 22	Reapp.	44 Leonis	E. Eq.	70	,,	14 38 48·50	H. T.
22	,,	Piazzi X. 67	E. Eq.	70	,,	14 49 2·71	H. T.
Nov. 21 (*h*)	,,	46 Virginis	Altaz.	100	,,	17 31 21·05	L.
Dec. 3	Disapp.	h^1 Aquarii	Altaz.	100	,,	5 8 28·30	T.
3	,,	h^1 Aquarii	E. Eq.	70	,,	5 8 28·45	L.
3	,,	h^2 Aquarii	E. Eq.	70	,,	5 9 28·98	L.
3 (*i*)	,,	h^3 Aquarii	Lassell Refl.	170	,,	5 29 36·24	H. T.
10 (*j*)	,,	Bradley 686	Altaz.	100	,,	10 28 37·40	J. P.
18 (*k*)	Reapp.	γ^1 Virginis	Altaz.	100	,,	14 34 5·34	T.

Notes.

(*a*) Disappearance instantaneous.

(*b*) Reappearance did not seem to be quite instantaneous.

(*c*) The reappearance occupied a *minute* but perceptible interval, say ·2 of a second or less. The time recorded is that of the commencement of the reappearance.

(*d*) Star seemed to take about half a second to clear the Moon's limb; high wind.

(*e*) Observation not considered satisfactory, as high wind prevented the clock being heard distinctly.

(*f*) Star seemed to disappear instantaneously when well within the dark limb.

(*g*) The star at disappearance seemed to be well within the dark limb; the disappearance was instantaneous.

(*h*) Cloudy.

(*i*) Star appeared very faint before disappearance.

(*j*) Star faint.

(*k*) The observer could not see two stars close to limb at reappearance

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Phenomena of Jupiter's Satellites.

Day of Obs.		Satellite.	Phenomenon.		Telescope.	Power.	Mean Solar Time of Observation.	Mean Solar Time of N.A.	Observer.
							h m s	h m s	
1886, Feb.	22 (*a*)	I.	Ecl. D.	Began to fade	Altaz.	100	10 13 27	10 15 8	L.
	22	I.		Last seen	,,	,,	10 15 8		,,
	23 (*b*)	I.	Tr. Egr.	Last contact	Simms' Eq.	220	10 17 21	10 16	H. T.
Mar.	8	II.	Ecl. D.	Last seen	E. Eq.	70	12 51 6	12 50 30	H.
	9	I.	Tr. Ing.	First contact	,,	210	11 29 18	11 31	L.
	9	I.		Last contact	,,	210	11 32 22		,,
	9 (*c*)	I.	Tr. Egr.	First contact	,,	70	13 41 41	13 45	,,
	9	I.		Last contact	,,	,,	13 45 11		,,
	10	III.	Occ. R.	First seen	Simms' Eq.	80	9 52 22	9 58	H.
	10 (*d*)	III.		Bisection	,,	,,	9 56 37		,,
	10	III.		Last contact	,,	,,	10 2 17		,,
	10	II.	Tr. Egr.	First contact	E. Eq.	210	10 41 30	10 49	T.
	10	II.		Last contact	,,	,,	10 44 45		,,
	10	I.	Occ. R.	First seen	,,	,,	10 56 13	10 59	,,
	10	I.		Last contact	,,	,,	10 58 42		,,
	11	I.	Tr. Egr.	First contact	Simms' Eq.	140	8 8 16	8 11	L.
	11	I.		Last contact	,,	,,	8 12 21		
	11 (*e*)	IV.	Ecl. R.	First seen	,,	220	12 35 35	12 28 45	H. T.
	17	III.	Ecl. D.	Last seen	,,	,,	10 8 31	10 6 43	A. D.
	17 (*f*)	II.	Tr. Ing.	First contact	,,	,,	10 12 31	10 16	,,
	17	II.	Tr. Ing.	Last contact	,,	,,	10 19 16		,,

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